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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/653,610	08/31/2000	Thomas E. Saulpaugh	5181-70500	4144

7590 03/26/2004
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EXAMINER

NGUYEN, QUANG N

ART UNIT	PAPER NUMBER
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2141

DATE MAILED: 03/26/2004

7

Please find below and/or attached an Office communication concerning this application or proceeding.

SK

Office Action Summary

Application No.

09/653,610

Applicant(s)

SAULPAUGH ET AL.

Examiner

Quang N. Nguyen

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 31 August 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-51 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-51 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 31 August 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>2,4,5 and 6</u> . | 6) <input type="checkbox"/> Other: _____ |

Detail Action

1. This Office Action is in response to the Application SN 09/653,610 filed on 08/31/2000. Claims 1-51 are presented for examination.

Claim Objections

2. Claim 40 is objected to because of the following informalities:

On page 176, line 1: "The carrier medium as recited in claim 1, ..." should be "The carrier medium as recited in claim 35, ...".

Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

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The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

4. Claims 1, 18 and 35 is rejected under 35 U.S.C. 102(e) as being anticipated by He et al. (US 6,088,451), herein after referred as He.

5. As to claim 1, He teaches a method for accessing a service in a distributed computing environment, comprising:

a client receiving a capability credential (i.e., a list of user credentials enclosed in a credential ticket), wherein said capability credential indicates that the client is allowed to access a portion of a first service's capabilities (He, C18: L34-67 and C19: L1-39);

the client using said capability credential (i.e., the received credential ticket) to request an access interface document to access the first service (to access a specified network element 104) (He, C20: L14-67 and C21: L1-22);

the client receiving said access interface document, wherein said access interface document comprises an interface for accessing only said portion of the first service's capabilities (i.e., once in authorization is OK, the user is permitted to access pull down menus to identify those network elements to which is a lowed to access); and

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the client using the interface from said access interface document to access a capability from said portion of the first service's capabilities (i.e., the user can make an access request by selecting/clicking on one of the network elements listed by the pull-down menu) (He, C26: L58-65).

6. Claim 18 is a corresponding client device claim of method claim 1; therefore, it is rejected under the same rationale.

7. Claim 35 is a corresponding carrier medium claim of method claim 1; therefore, it is rejected under the same rationale.

Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. **Claims 2-17, 19-34 and 36-51 are rejected under 35 U.S.C. 103(a) as being unpatentable over He, in view of Pulliam et al. (US 6,609,108), herein after referred as Pulliam.**

10. As to claim 2, He teaches using said capability credential to request an access interface document as in claim 1, but does not explicitly teach sending an advertisement request message in a data representation, wherein said advertisement request message includes said capability credential.

In the related art, Pulliam teaches an online shopping communication schema for communicating online orders, wherein a message client 924 (Fig. 10) is a multi-threaded HTTP process that provides the required functions to receive the XML formatted document (i.e., pull-down lists of makes and models as an access interface document), then generates and sends XML messages and application credentials to and from the locate server; and the listener 902 of the server 821 (Fig. 9) accepts messages and provides support for authenticating whom the request is from using private key infrastructure (PKI) encrypted user credentials to allow or deny access to specific functions and data sets supported by the server based on the requestor's identity/credentials (Pulliam, C14: L34-45 and C15: L38-42).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to combine the teachings of He and Pulliam to request an access interface document by sending an advertisement request message in a data representation, wherein said advertisement request message includes said capability credential since such methods were conventionally employed in the art to submit request messages along with attached client/user's credentials to the security system for authentication requirement to obtain access to protected information and service.

11. As to claim 3, He-Pulliam teaches the method of claim 2, wherein said data representation language is eXtensible Markup Language (XML) (Pulliam, C16: L40-50).

12. As to claim 4, He-Pulliam teaches the method of claim 2, further comprising in response to receiving said advertisement request message, generating and sending an advertisement request response which includes a custom advertisement according to said portion of the first service's capabilities that the client is allowed to access (i.e., generating pull-down menus to identify those capabilities to which the client is allowed to access) (He, C26: L58-65 and Pulliam, C13: L34-40).

13. As to claim 5, He-Pulliam teaches the method of claim 4, wherein said custom advertisement specifies an XML schema defining messages to be sent to and from the first service (i.e., the network element/sever) (Pulliam, C15: L39-43 and C16: L40-50).

14. As to claim 6, He-Pulliam teaches the method of claim 1, further comprising the client receiving a protected advertisement for the first service, wherein said protected advertisement provides an address (i.e., through message exchanges with the authentication server 202, the user authenticates his/her identify to the network and obtains the authentication ticket that contains, or redirects the user to, the address of credential server 204) to request said security credential, but does not provide said access interface document to access the service. (He, C17: L55-67 and C18: L1-23).

15. As to claims 7-10, He-Pulliam teaches the method of claim 6, further comprising the client sending a request for said security credential to said address for an authentication service that determines a level of capabilities of the first service that client is authorized to access (i.e., the user sends a message to the credential server 204 to request for a list of the user credentials) and generates said security credential to grant access for the client to said portion of the first service's capabilities (i.e., upon receiving the request message, the credential server 204 retrieves information from the authentication ticket and based on the user identifier, the credential server 204 will retrieve the list of user credentials from the registration database 210 and enclose the list in a credential ticket to send back in a response message to the user) (He, C18: L57-67 and C19: L1-31).

16. As to claim 11, He-Pulliam teaches the method of claim 6, wherein said protected advertisement further provides an address (i.e., through message exchanges with the credential server 204 using the authentication ticket, the user obtains the credential ticket that contains, or redirects the user to, the address of network element access server 206) to request said access interface document to access the first service, wherein said using capability credential to request an access interface comprises sending an advertisement request message to said address to request said access interface document (He, C18: L57-67 and C19: L1-31).

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17. As to claim 12, He-Pulliam teaches the method of claim 6, wherein receiving said protected advertisement from a space service (i.e., "realm" or network 106 of Fig. 2), wherein said space service comprises protected advertisements for a plurality of services (i.e., comprises plurality of different organizations on different types of network elements 104) including the first service (the specified network element 104), wherein each protected advertisement specifies an address (address of the network security server NNS 208) for request a security credential to allow access to a corresponding service (He, C3: L4-9, C14: L62-67 and C15: L1-28).

18. As to claim 13, He-Pulliam teaches the method of claim 1, wherein said access interface document comprises a schema (i.e., XML schema) defining messages for accessing said portion of the first service's capabilities, wherein said using the interface from said access interface document to access a capability (i.e., using the pull down list to access available information/services) comprises sending a message according to said schema to the first service (Pulliam, C16: L40-50).

19. As to claim 14, He-Pulliam teaches the method of claim 13, wherein said message includes said capability credential (i.e., the list of user credentials contained in the credential ticket), the method further comprising the first service (i.e., the network element access server 206) using said capability credential to authenticate said message as from the client (He, C20: L28-67 and C21: L1-13).

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20. As to claim 15, He-Pulliam teaches the method of claim 1, wherein said access interface document comprises a schema (i.e., XML schema) defining messages for accessing said portion of the first service's capabilities, wherein the client using said access interface document to construct a message gate for sending messages to the first service (i.e., a message client 924 provides the required functions to receive the XML formatted document, then generates and sends XML messages and application credentials to and from the server), wherein the message gate embeds said capability credential in each message (Pulliam, C15: L38-43).

21. As to claims 16-17, He-Pulliam teaches the method of claim 15, wherein the message gate checks each message for compliance with said message schema, i.e., an XML schema (He, C16: L40-50).

22. Claims 19-34 are corresponding client device claims of method claims 2-17; therefore, they are rejected under the same rationale.

23. Claims 36-51 are corresponding carrier medium claims for method claims 2-17; therefore, they are rejected under the same rationale.

24. Further references of interest are cited on Form PTO-892, which is an attachment to this office action.

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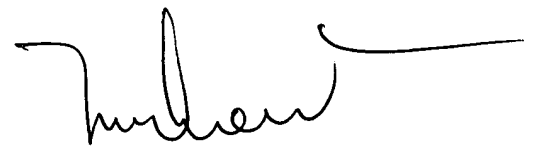
25. A shortened statutory period for reply to this action is set to expire THREE (3) months from the mailing date of this communication. See 37 CFR 1.134.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quang N. Nguyen whose telephone number is (703) 305-8190.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's SPE, Rupal Dharia, can be reached at (703) 305-4003. The fax phone number for the organization is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3800/4700.

Quang N. Nguyen

A handwritten signature in black ink, appearing to read 'L. H. Luu', with a long horizontal line extending to the right.

LE HIEN LUU
PRIMARY EXAMINER